KRIST VESELI

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EDUCATION

Michigan State University **East Lansing, MI**

B.S. Computer Science

- **Relevant Courses:** Introduction to Python, Introduction to C++, Data Structures and Algorithms, Computer Organization and Architecture, Database Systems, Object-oriented Software Design, Introduction to AI

PROFESSIONAL EXPERIENCE

United Wholesale Mortgage **Pontiac, MI**

Software Developer Intern *May 2025 – August 2025*

- Migrated legacy CRON jobs into C# Azure Functions using timer triggers, improving reliability and eliminating manual scheduler maintenance and improving reliability by 70%
- Optimized user-segmentation process by crafting complex SQL queries to filter users against specific business criteria, boosting efficiency by 85%
- Automated new-user provisioning by authoring SQL scripts to grant database permissions, accelerating onboarding and reducing manual updates by 60%
- Maintained and updated outdated project dependencies and libraries, resolving compatibility issues and reducing security vulnerabilities across multiple app modules
- Developed unit and behavior tests with MSTest, NUnit, and Moq, using CodeRush to improve test coverage by up to 90% on features deployed to production
- Ensured code coverage by writing tests that hit actual repository code, validating data access and business logic layers.

PROJECTS

Stock Price Prediction Tool | *Python*

- Designed and implemented an LSTM-based neural network in PyTorch to forecast stock prices using historical market data.
- Collected and preprocessed data via Yahoo Finance API, applying feature scaling and time-series sequence generation for
- model input.
- Trained and optimized the model on GPU with the Adam optimizer, achieving a test RMSE of 1.5 – 1.9 on large-cap stocks.
- Visualized predictions and error analysis with Matplotlib, delivering actionable insights through clear performance plots.

Twitter Automation Bot | *Python*

- Developed a Python-based GUI application using Tkinter to search Twitter keywords and interact with tweets programmatically.
- Integrated with Twitter's REST API via Tweepy to reply, retweet, favorite, and follow users, handling up to 500 tweets per session.
- Automated follower management by following all 1,000+ followers of the authenticated account in minutes.
- Streamlined social media engagement, reducing manual interaction time by ~90%, demonstrating skills in API integration, Python automation, and GUI development.

Car Infotainment-System | *Python*

- Developed a Python-based car infotainment system using PyQt5, featuring a real-time speedometer, fuel gauge, and an embedded YouTube player for media playback**.**
- Integrated custom UI components and utilized QWebEngineView for video/audio streaming.
- Implemented dynamic fuel consumption based on vehicle speed, enhancing realism in user interactions.

Social Network Friend Recommendation System | *Python*

- Developed a recommendation system for a social network platform, allowing users to discover and connect with potential friends based on common connections and interests.
- Implemented an efficient algorithm to identify the user with the highest number of common friends, excluding the user themselves, thus optimizing the friend suggestion process.

Combined Affine and Caesar Cipher Encryption Project | *Python*

- Designed and implemented a novel cryptographic technique that combines Affine Cipher and Caesar Cipher for encrypting and decrypting sentences, ensuring the privacy and security of sensitive information.
- Demonstrated proficiency in cryptography, algorithm design, and user interface development, contributing to the creation of a unique and practical security tool.

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